User Manual

January 2013 - Version 1.01

XFly.Streamer

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Regional Contacts

The address and phone number of the EVS headquarters are usually mentioned in the **Help>About** menu in the user interface.

You will find the fill list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or on the EVS website on the following page: http://www.evs.tv/contacts

User Manuals on EVS website

The latest version of the user manual, if any and other user manual on EVS products can be found on the EVS download center, on the following webpage:

http://www.evs.tv/downloadcenter

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What's New?

The following table describes the sections updated to reflect the new and modified features on 1.01 (compared to 1.0).

In the user manual, the icon has been added on left margin to highlight information on new and updated features.

Click the section number (or the description) in the table to jump directly to the corresponding section.

Section	Description
5.2	CamLabel information is available in the Channel area CAM Label will refresh every two minutes to get the latest information on the server.
5.4.1	Start recording with Timecode defined in the past
5.5.1	Wrappers' selection / Avid MediaFiles folders
7	Retry of streaming jobs one by one

1. Overview

XFly Streamer is an interface software dedicated to the backup of streams from one or several EVS video servers (XT [2], XT [2] +, XT [3], XS, XTnano). XFly Streamer manages the backup and transfer of all streams selected by the operator.

This manual describes the configuration interface, which is easy to use and straightforward.

XFly Streamer acts as a user interface for the background running XTAccess file transfer application. XFly Streamer sends its commands to XTAccess using the XML jobs files.

Please refer to the XTAccess documentation for detailed instructions about this application.

1.1 Hardware & Software Requirements

1.1.1 Minimal Requirement

The guidelines for the minimum software and hardware requirement are:

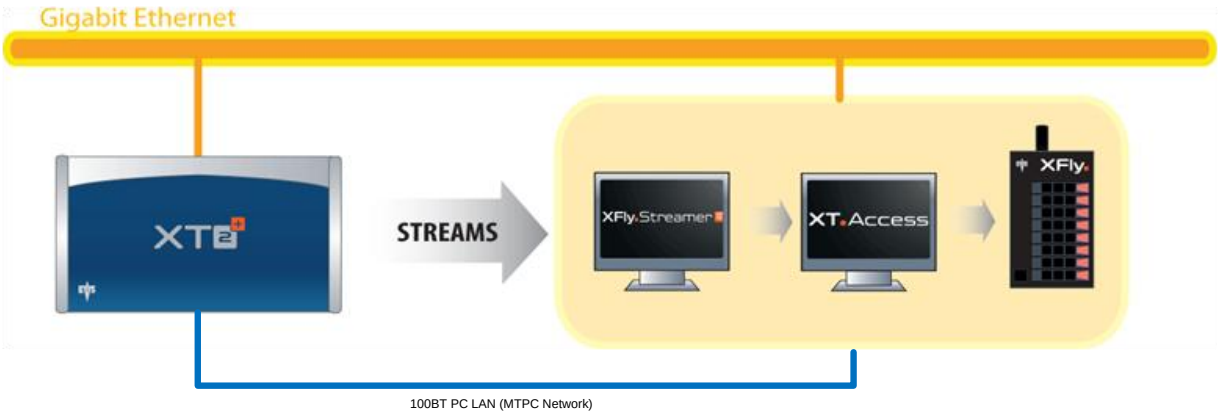
- OS: Windows 7 Pro
- Software: Framework .NET 4.0
- Motherboard I5 660 - 3.3 GHz dual core
- DRAM 4GB (1GB shared with graphic card)
- Graphic: Chipset Intel G965 Express or equivalent dedicated graphic card (Nvidia/AMD)

1.1.2 Network Architecture Description

XFly Streamer can be installed on the same computer as an XTAccess application. The streams to be archived are located on one or several servers and storage units connected to the same network. Two networks are used for the various communication and the transfer of files as illustrated. Physically, these networks can be one and the same or separate for the sake of performance:

- The **MTPC network** is used to detect XT [3], XT [2], and XT [2] +, XS and XTnano servers, to identify them, and to transfer the list of REC channels to be backed up.

- The **HCTX network** is used to transfer the streams data between the XFly Streamer and XTAccess computer, the XT [3], XT [2], XT [2] +, XS and XTnano servers and the storage unit.



2. Installation

The XFly Streamer user interface application is, preferably, installed on the same computer as the XTAccess file transfer application. The XTAccess application is dedicated to XFly Streamer and we recommend not to be used by any other application.

Important:

XTAccess is restricted to file transfer with wrapping when required but cannot perform any format transcoding.

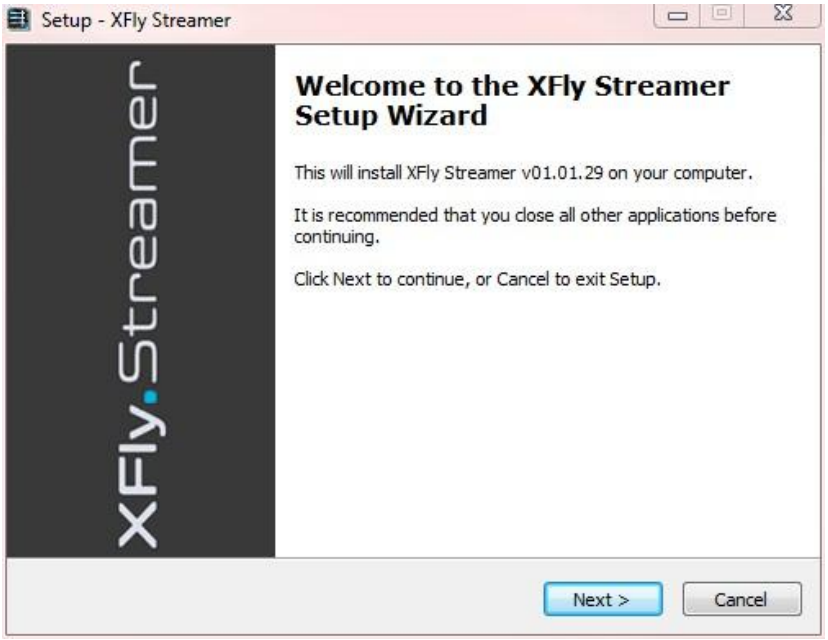
XFly Streamer is able to communicate only with one single XTAccess application at a time, but it manages the backup of streams from multiple XTnano, XT [3], XT [2], XT [2], and/or XS servers.

As only one XTAccess application is used, only one XML Unit is defined by default for the communication between the XFly Streamer and XTAccess applications. XFly Streamer creates xml files corresponding to the backup of streams and grabs jobs requested by the operator and drops these files in the XML Unit folder. XTAccess regularly pools this folder and executes any available job described as an xml file.

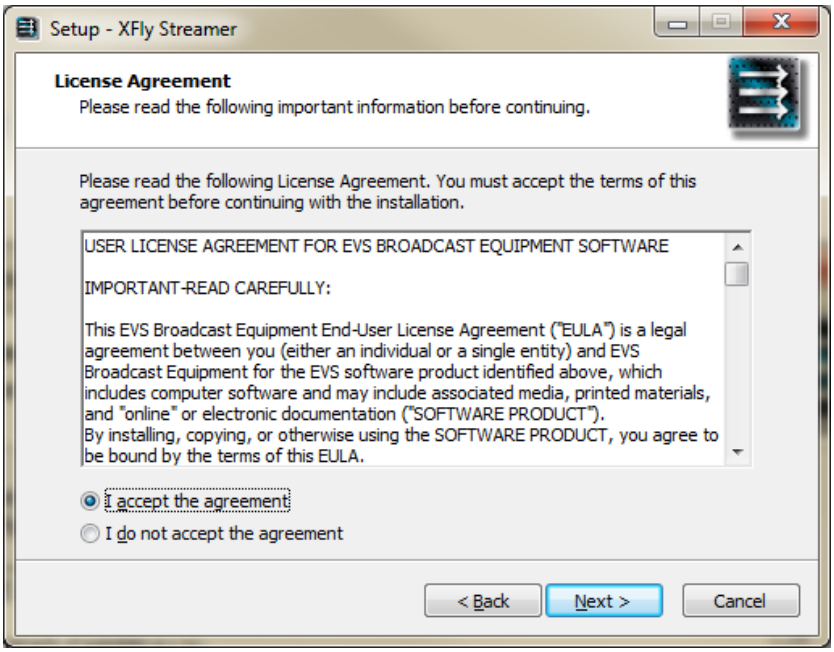
To install XFly Streamer, proceed as follows:

1. Run XFly Streamer installer and then follow the steps of the Setup wizard.

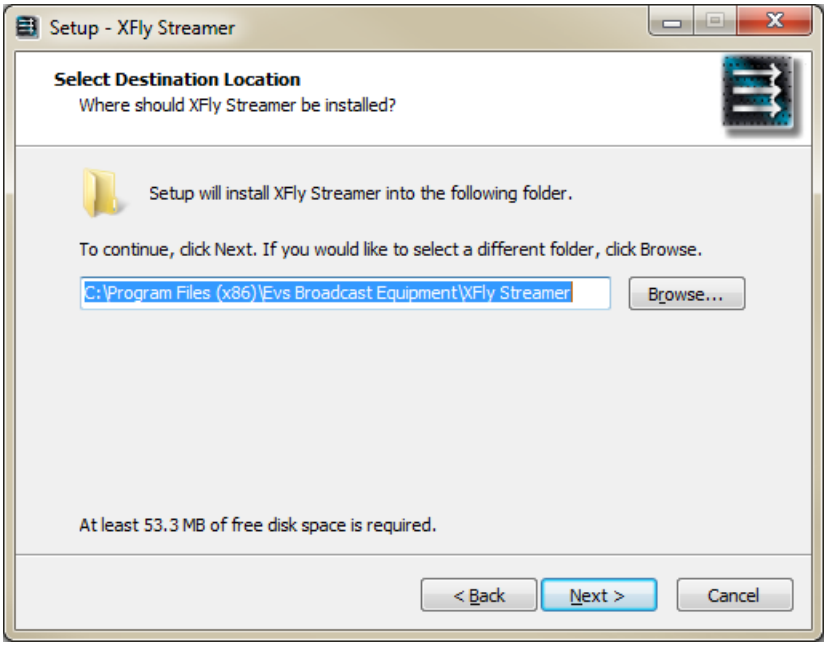
2. Click **Next** to continue.


Setup - XFly Streamer
XFly.Streamer
Welcome to the XFly Streamer Setup Wizard
This will install XFly Streamer v01.01.29 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

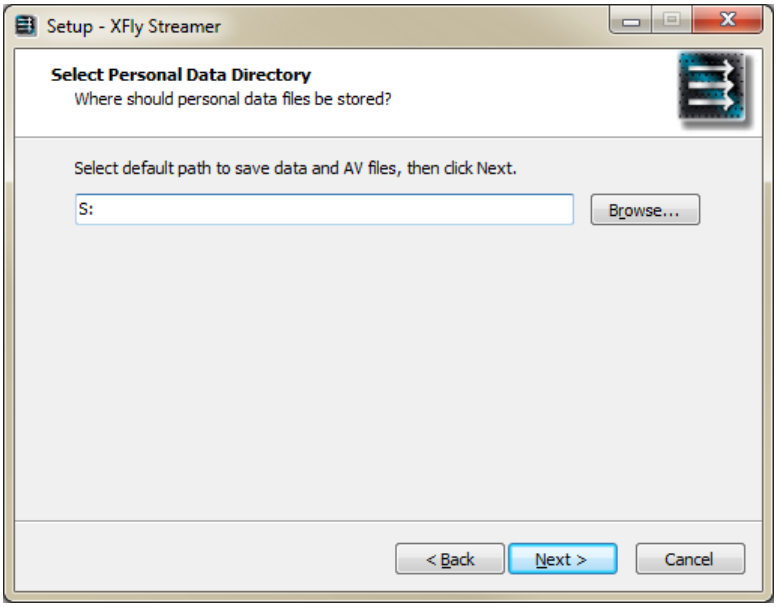
3. Select **I accept the agreement** and then click **Next.**


Setup - XFly Streamer
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
USER LICENSE AGREEMENT FOR EVS BROADCAST EQUIPMENT SOFTWARE
IMPORTANT-READ CAREFULLY:
This EVS Broadcast Equipment End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and EVS Broadcast Equipment for the EVS software product identified above, which includes computer software and may include associated media, printed materials, and "online" or electronic documentation ("SOFTWARE PRODUCT").
By installing, copying, or otherwise using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA.
I accept the agreement
I do not accept the agreement
< Back
Next >
Cancel

4. Select the destination and then click **Next.**


Setup - XFly Streamer
Select Destination Location
Where should XFly Streamer be installed?
Setup will install XFly Streamer into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files (x86)\Evs Broadcast Equipment\XFly Streamer
Browse...
At least 53.3 MB of free disk space is required.
< Back
Next >
Cancel

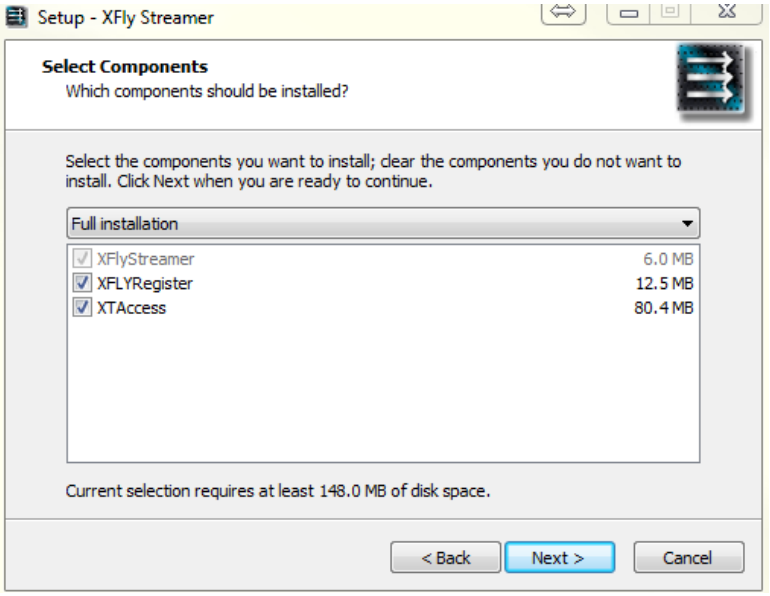
5. Select the destination to save the AV files and data, and then click **Next.**


Setup - XFly Streamer
Select Personal Data Directory
Where should personal data files be stored?
Select default path to save data and AV files, then click Next.
S:
Browse...
< Back
Next >
Cancel

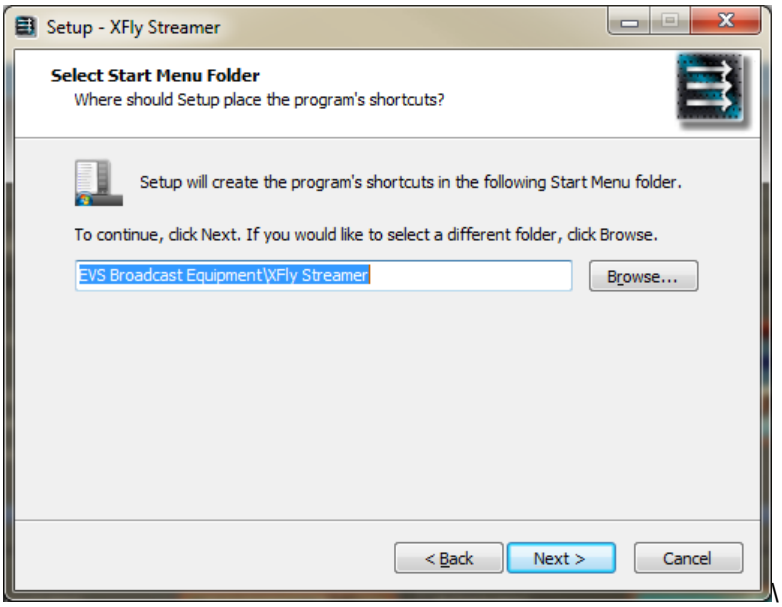
6. Select the components to install, and then click **Next.**

   The XFly Streamer setup launches:

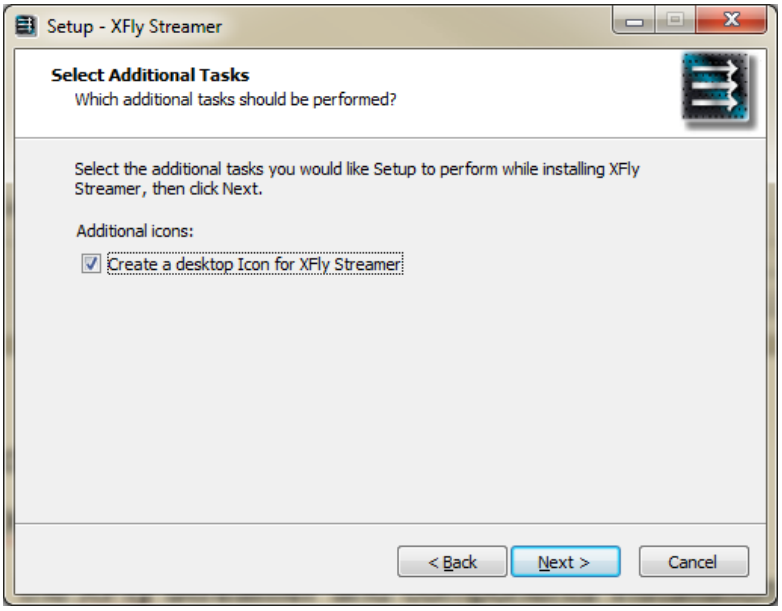
   - the **XFly Streamer** and components installation
   - the **XFLYRegister** (detection of XFly box via Bonjour protocol)
   - and the **XTAccess** installation even if already installed


Setup - XFly Streamer
Select Components
Which components should be installed?
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.
Full installation
XFlyStreamer 6.0 MB
XFLYRegister 12.5 MB
XTAccess 80.4 MB
Current selection requires at least 148.0 MB of disk space.
< Back
Next >
Cancel

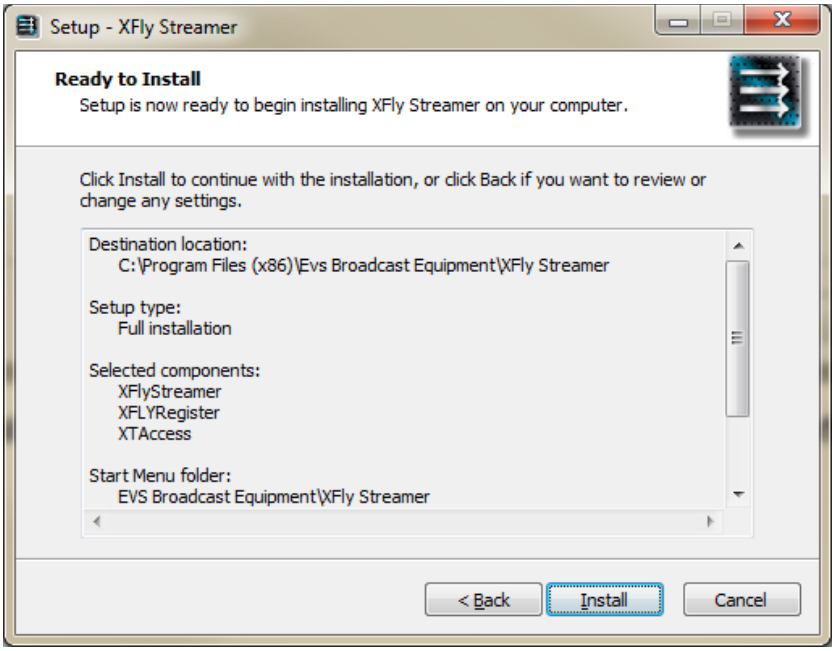
7. Select the Start Menu folder in which the Application shortcuts are saved, and then click **Next**.


Setup - XFly Streamer
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
EVS Broadcast Equipment\XFly Streamer
Browse...
< Back
Next >
Cancel

8. Validate the Desktop icon creation and then click **Next**.


Setup - XFly Streamer
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing XFly Streamer, then click Next.
Additional icons:
Create a desktop Icon for XFly Streamer
< Back
Next >
Cancel

9. All components and related tasks/options are ready to be installed. Click **Install** to start the installation.

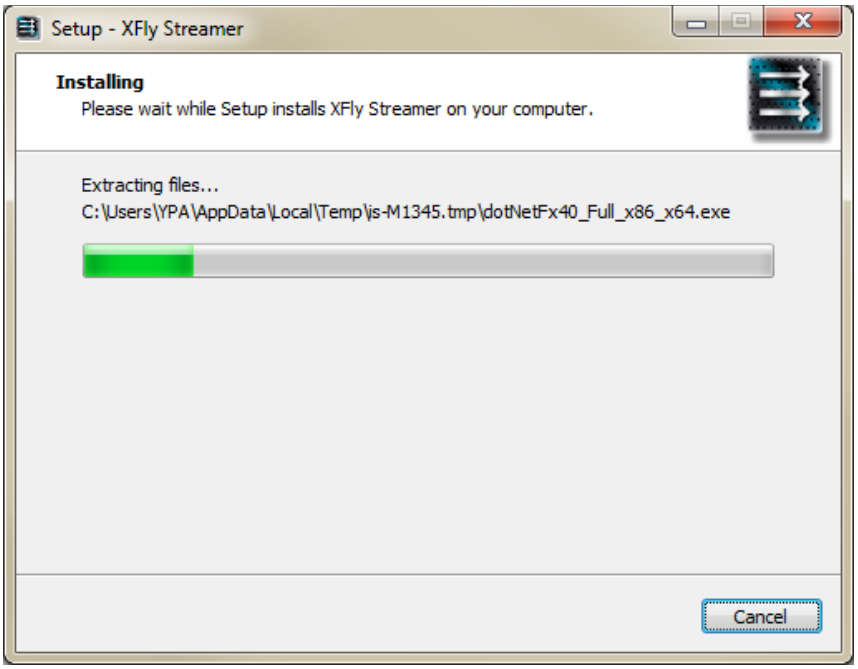


10. All files are extracted and then installed in **Silent mode**.

    The installation process continues with the BONJOUR services installation, with the .NET Framework 4, the XFLY registration to Bonjour protocol, and then with XTAccess installation.

    The different XTAccess components if required for the XFly Streamer use are installed:

    - **Install VCRedist**: If you install XTAccess for the first time on this workstation, you need to install Microsoft Visual C++ Redistributable application by selecting “Install VCRedist”.
    - **Install XSecure Manager**: This option will install the EVS License software (EVS Licenses XSecure codes are necessary for the transcoding jobs and rendering of playlists).
    - **Install XTAccess Encoders**: This option is required to operate XFly Streamer.
    - **Install XTGateway**: This option is not required to operate XFly Streamer but it is installed with the full installation package.
    - **XTAccess Inscription to the EVS SNMP** and **Install EVS SNMP Agent**: These options validate the inscription to the EVS SNMP Agent.



11. The XFly Streamer software installation is successfully completed. Click **Finish** to restart the computer.

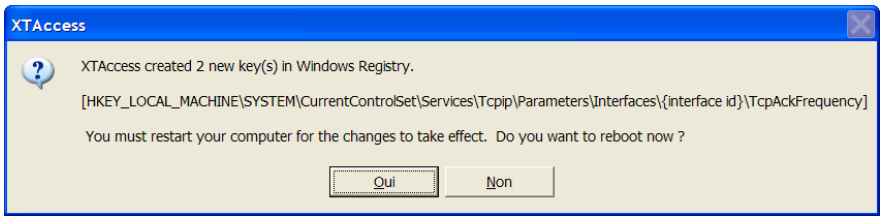
Setup - XFly Streamer
XFly.Streamer
Completing the XFly Streamer Setup Wizard
To complete the installation of XFly Streamer, Setup must restart your computer. Would you like to restart now?
Yes, restart the computer now
No, I will restart the computer later
Finish

Thanks to the installation 3 new shortcuts are added to your desktop:

XTAccess is automatically launched at start-up and minimized in the task bar.

Important

At first start of XTAccess, the application modifies or adds the TcpAckFrequency in the registry. This key allows having better performances for backup. XTAccess needs to be re-started a second time.


XTAccess
XTAccess created 2 new key(s) in Windows Registry.
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Interfaces\{interface id}\TcpAckFrequency]
You must restart your computer for the changes to take effect. Do you want to reboot now ?
Oui
Non

3. Configuration and Remote Systems

The installer sets up automatically all software and components therefore **no additional setting is required** prior to operate the XFly Streamer.

The following REG keys of the local XTACCESS have been modified during the installation process:

Global parameters:

[HKEY_CURRENT_USER\Software\EVS Broadcast Equipment\XTAccess]

“Max Running jobs”= dword:00000012 means **up to 12 simultaneous recordings**

“Max XML jobs”= dword:00000012 means **up to 12 simultaneous jobs**

For streaming and grab (thumbnails): a XML default folder is created

[HKEY_CURRENT_USER\Software\EVS Broadcast Equipment\XTAccess\Scan00]

"XML Root Path"="C:**XFLY_Streamer_XML**\\"

"Scan Autostart"=dword:00000001

The following folders are automatically created and shared with full priorities options:

grab and **ima** folders to collect the images needed to display the thumbnails. These folders are in Hidden mode.

xfly_streamer\AV_files folder to collect the Audio/Video files

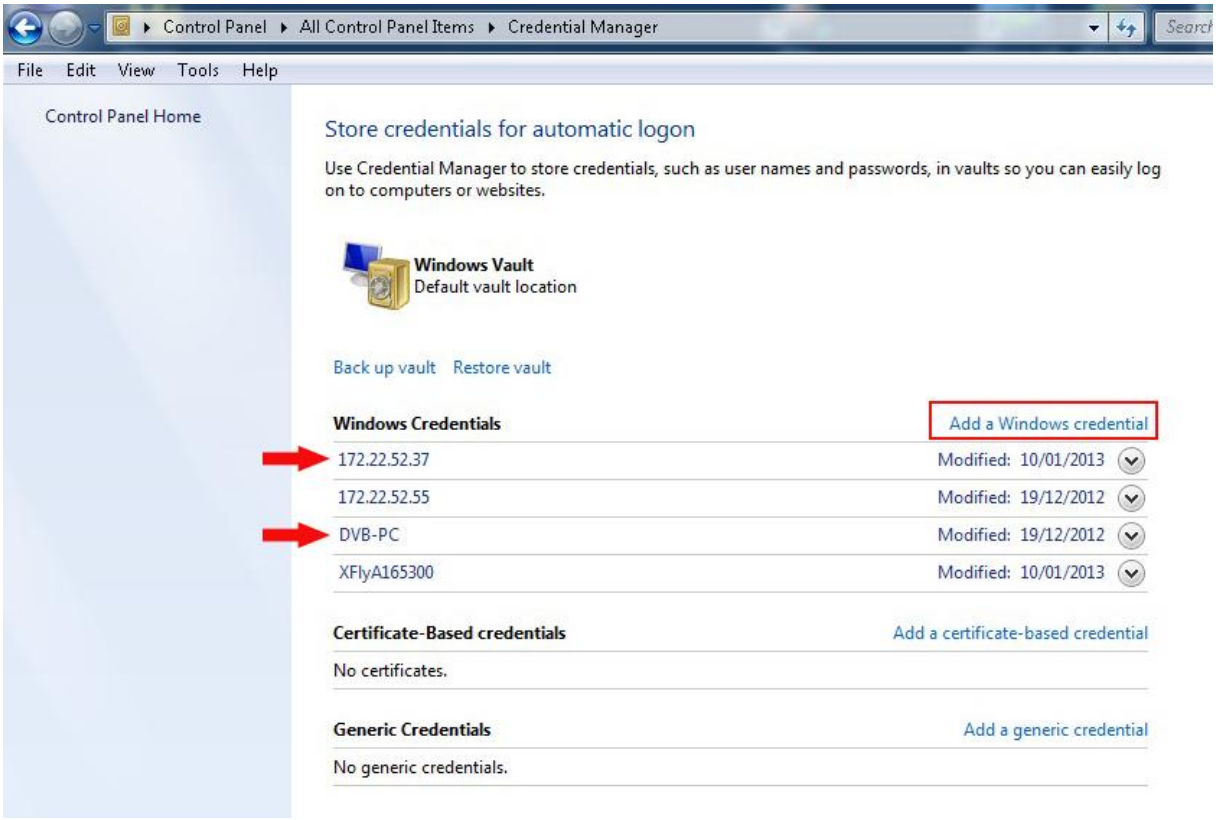
The local XTAccess software and its XFLY_Streamer_XML unit are automatically launched and started at start-up. Therefore the XFly Streamer is ready to operate.

3.1 Remote Systems

In order to work properly with XTAccess installed on non-local system, you have to set the REG keys and to create and shared the folders as described in previous paragraph.

In order to log on to remote computers, you have to define the **Windows credentials**.

Select Control Panel > UserAccounts and Family Safety > User Accounts > Manage your credentials.



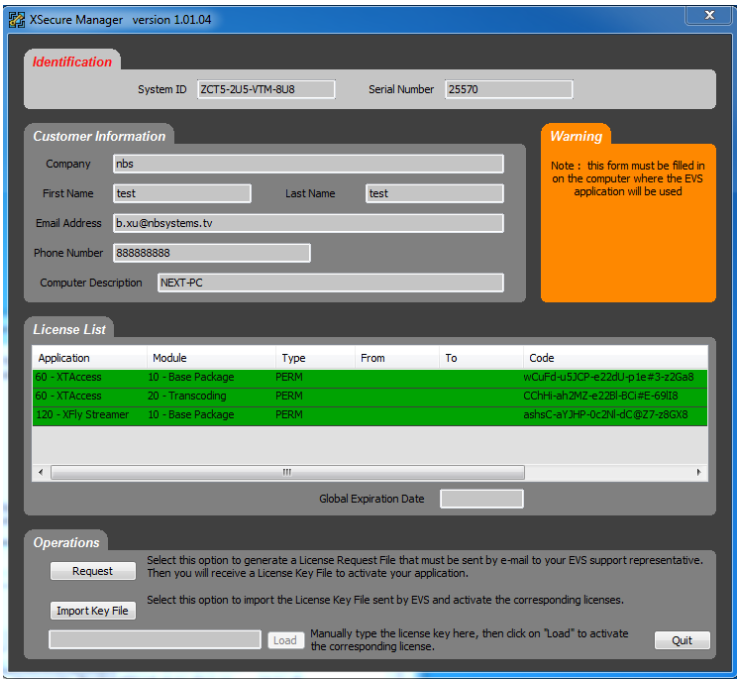
Select " Add Windows Credentials " to select new computer. For each system, 2 Credentials definition are required: one for the IP address, the other for the Machine Name.

4. License Code

XSecure manager must be used when you need to install a new license code, or extend the validity of a temporary license code.

XSecure can be started by double-clicking on the XSecure Manager shortcut icon automatically created on your desktop.

In the XSecure application, fill in the Customer information and then click on the **REQUEST** button in the lower left corner of the window. This will generate an XML file that you must send to EVS. Select the location where you would like to save that file, and click on the SAVE button, then send this file to your support contact at EVS, specifying which new license codes or license code extensions you require.



In return you will receive another XML file containing the license codes or code extensions that you have requested. Copy that XML file in a directory that is visible by the computer where XSecure is installed (using a USB key for instance, or your LAN network), and click on the **IMPORT KEY FILE** button in XSecure window. The license codes will be automatically imported, and a dialog box confirms how many license codes have been successfully imported.

Important Note

Modifying NIC configuration, for example: Port teaming will invalidate your software license. Please contact EVS support to generate a new KEY according to your new configuration.

5. User Interface

The XFly Streamer user interface consists of five main areas. They are highlighted on the following screenshot and described in the table below:

Area		Description
1.	**Storage & Processing Devices Selection**	From this area, the operator can selected the storage device to store the AV files and also the processing device i.e. the XTAccess to process the different tasks for grabbing thumbnails and for recording streams
2.	**Servers List**	This area displays the list of all servers detected on the network.
3.	**Settings**	The settings area gives access to the selection of file format, folders to save the AV files, auto naming function and the maximum duration for recording.
4.	**Channels Pane**	This area shows the server Recorder channels which are selected in the servers' list.
5.	**Commands & Status**	This area displays the Timecode reference and duration, the status and the 2 main commands to start and stop the recordings.

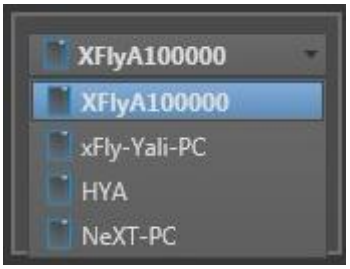
Note:

On the top left of the window, the caption bar mentions the Application name and the version number. There is no menu bar.

5.1 Storage & Processing Device Selection

Thanks to BONJOUR protocol, at start-up, XFLY systems are detected and listed in a drop-down list.

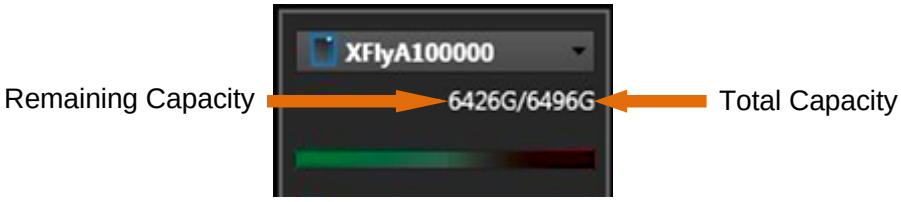
Clicking on the arrow on the right will display all systems detected. In the dropdown list, XFly is identified as Machine_Name + EVS_SN.



Note

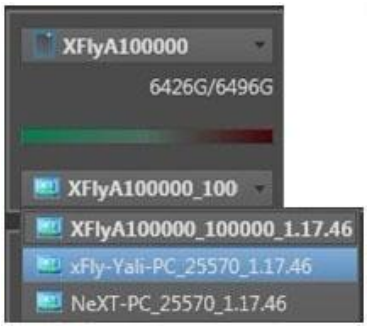
The **local** device is displayed on the top of the list with bold letters.

Once a system is selected its capacity information and a related diagram are updated:



The second drop-down list lists all XTAccess detected on the local network via BONJOUR protocol.

Clicking on the arrow on the right will display all processing devices detected. In the drop-down list, XTAccess is identified as Machine_Name+EVS_SN+version number.

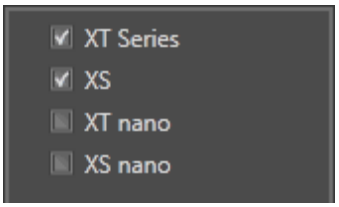


Note

The **local** XTAccess is always displayed on the top of the list with bold letters.

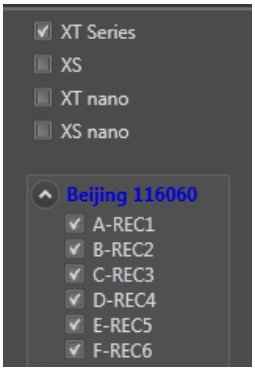
5.2 Server List

Filters



This pane displays the four families of EVS video servers which can be seen by Xfly Streamer: XT series, XS, XTnano and XSnano. Select one or several server types you want to display in the servers' list.

Select servers and then channels



This pane displays a list of all available servers found on the network after a discovery process. This list is based on the selection made in the Filters pane.

This list is updated regularly and automatically by new discovery processes.

Once the list is displayed, select all servers by clicking on the left arrow, then check the boxes of the channel on which you want to perform a backup.

New! CAM Label information, if defined, will be refreshed every two minutes to get the latest information from the server.

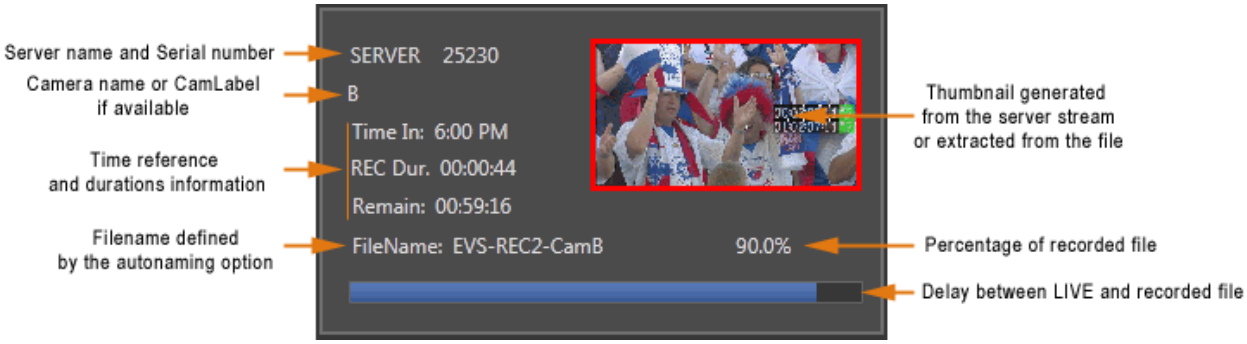
Note

The server list displays only the servers configured with record channels, and will only display the record channels.

5.3 Channels Area

The channel area is filled with all selected channels into the server list.

Each channels' field displays the same information:


Server name and Serial number
Camera name or CamLabel if available
Time reference and durations information
Filename defined by the autonaming option
SERVER 25230
B
Time In: 6:00 PM
REC Dur. 00:00:44
Remain: 00:59:16
FileName: EVS-REC2-CamB
90.0%
Thumbnail generated from the server stream or extracted from the file
Percentage of recorded file
Delay between LIVE and recorded file

5.4 Status & Commands Area

Area	Description
Server TC	This area will display the Timecode reference from the first server selected in the servers' list. This area is not editable.
TC IN	The TC IN field is editable. Click into the TC IN field and enters manually a TC value. The TC IN value must exist in the material of the selected server. This means that only TC “in the past” can be entered in the TC IN field.
TC OUT	The TC OUT field is editable. Click into the TC OUT field and enters manually a TC value. The TC OUT value must be higher than the TC IN value.
E/E	When clicks in the TC IN field and enters manually a TC value. When clicks E/E button will clear the TC IN and TC OUT fields. When pressing REC updates the Maximum duration value. The E/E button remains on the screen but is disabled.
Duration	This area displays the duration requested according to the TC IN/OUT values or if TC OUT not defined, according to the maximum duration setting.
Record button	Starts the backup of the recoding trains on all selected channels. The backup record starts instantly. The **Record** button lights red when the recording is in progress.
Stop button	Stops the backup of the record trains on all selected channels. The backup record will be stopped when the user clicks the **Stop** button. As the backup files need to close properly, it can however take some time before the job is finalized. During this time, the message "Finalizing..." will be displayed in the status area. The button lights blue when the recording is in progress and then the Stop command is enabled
Status	The **Status** area displays all the information related to the operations and the error messages.

5.4.1 Start with Timecode Defined in the Past

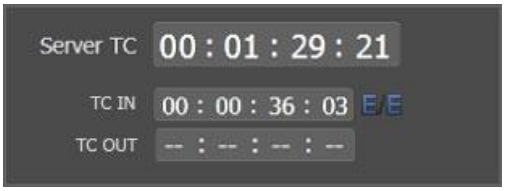
Note

XFLY. Streamer checks the validity of Timecode values manually entered by user. If a wrong value is entered, the TC field is cleared.

New!

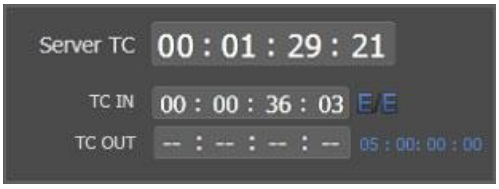
Clicks in the TC IN field and enters manually a TC value.

The E/E button (to return to current TC) appears



Pressing REC start all recordings from this TC IN value.

The Duration field is updated with the Maximum duration value.



The maximum duration parameter is still up to 300 minutes. When entering the TC out value, the XFLY. Streamer checks if the maximum value is not reached.

At any time the user can enter a TC OUT value and press ENTER on the keyboard to validate the new value. The Duration field is updated with the exact duration.

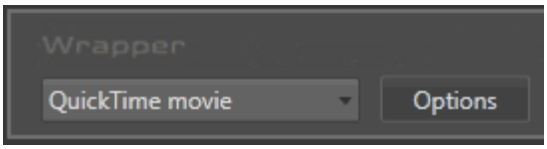
Or pressing the STOP button updates the boxes with TC OUT information and the exact duration information:

The TC IN, TC OUT and Duration information remains on the screen until the jobs are all finalized. Then the Timecode area is cleared.

5.5 Settings

All settings defined in that section are memorized. This means that at next start of the application all settings defined by the user will be restored.

5.5.1 Wrappers' Selection



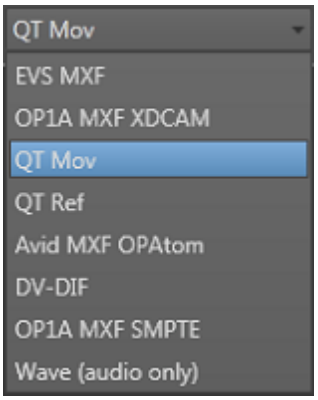
Important

XTAccess is restricted to file transfer with wrapping when required but cannot perform any format transcoding.

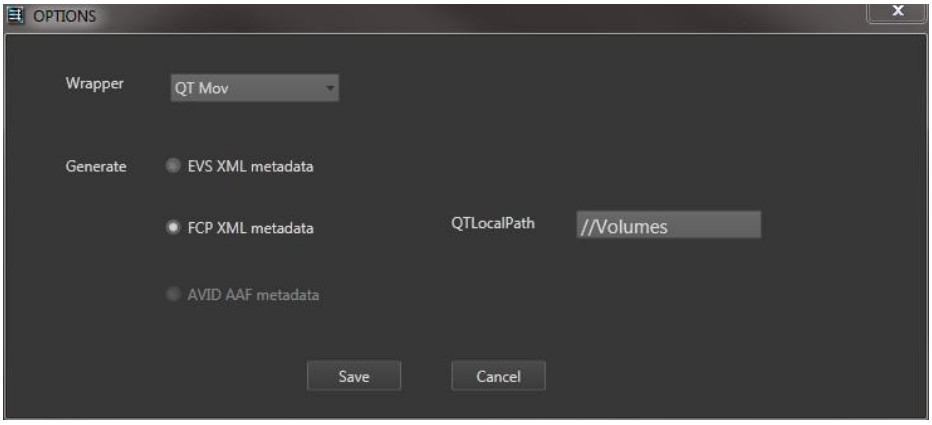
The available wrappers are:

- EVS MXF
- OP1a MXFXDCAM
- QuickTime Movie
- QuickTime Reference
- Avid MXF OPAtom
- DV-DIF
- OP1a MXF SMPTE
- Wave(Audio only)

Clicking on the arrow on the right will display the list of available wrappers:



Click Option to gain access to more options for the wrapper selection:



For generating **EVS XMLmetadata** select the first option. This EVS metadata file can be generated with all wrappers.

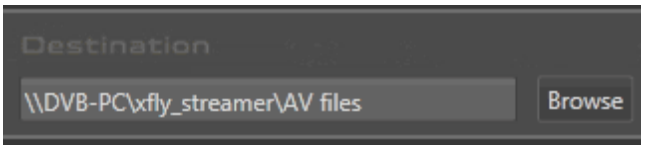
For generating **FCP XML metadata** select the second option. This FCP metadata file can be generated only when **QT Movie** and **QT Reference** wrappers are selected and is set by default.

An additional parameter: <QTLocalPath>**\\\Volumes**</Local Path> is required to be compatible with MAC OS. This information will be embedded in the resulting XML file.

For generating **AVID AAF metadata** select the second option. This AAF metadata file can be generated only when **AVID MXF OPAtom** wrapper is selected.

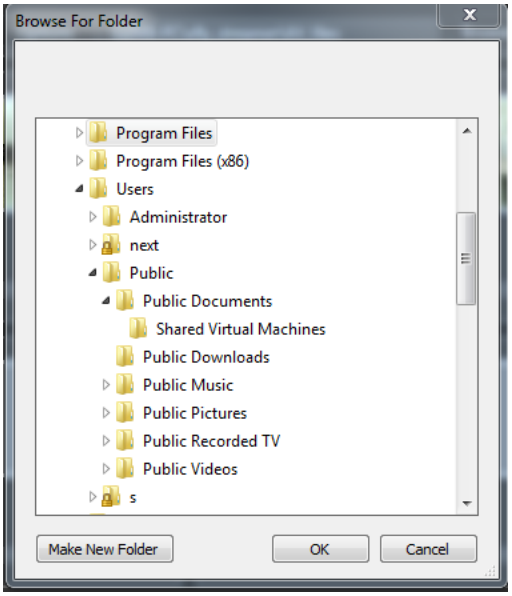
New! An additional parameter is available to create the structure of Avid Media Files folders. Selecting this parameter will create (and share) **/Avid MediaFiles/MXF/1** folders on your local drive (drive S: for XFLY device). All new Avid MXF OPAtom files will be saved to these folders/sub-folders.

5.5.2 Destination Selection



This field specifies the path where the AV files will be saved for all channels.

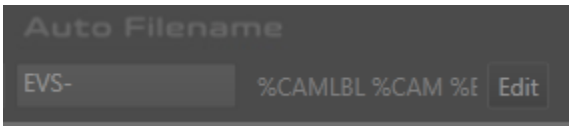
To modify the path, the user can type directly the new path (UNC format) into the Destination field or can click **Browse** to open the following Windows Standard dialog box:



Limitation

The files can be saved to '**shared**' folders only.

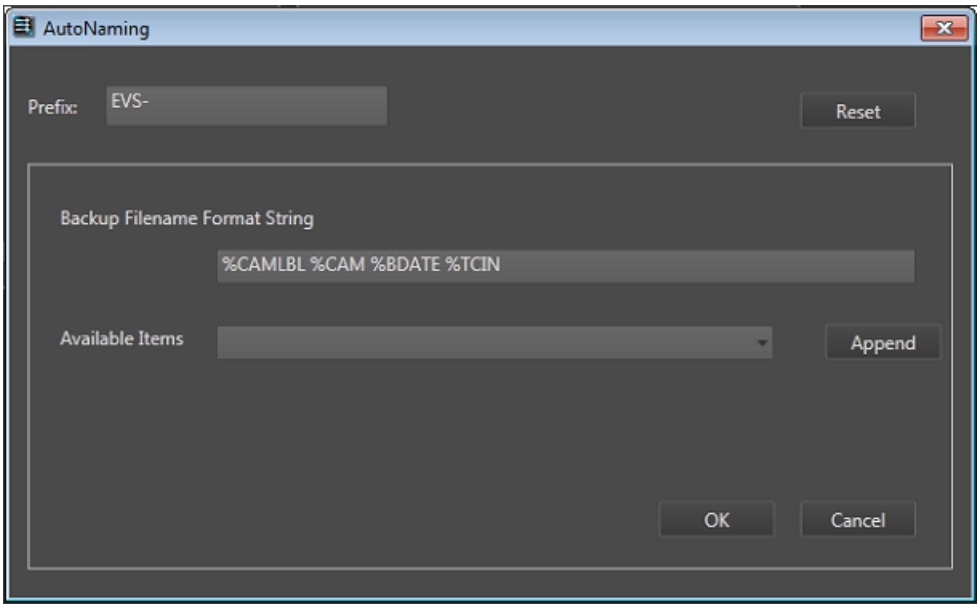
5.5.3 Auto Filename Definition



The filename is user-defined and can be modified as desired.

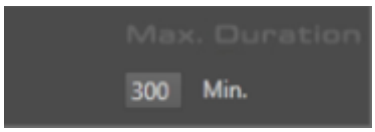
A direct access to the **Prefix** field allows the user to set a different name to each recording for example: Take01, Take02.

Click **Edit** to gain access to more options for the Autonaming function:



The user can reset the default filename by clicking the **Reset** button.

5.5.4 Maximum Duration Setting



In case a stream is a backup with endless command, the application will stop the backup when the maximum duration defined in this field has been reached.

The default value is 300 minutes and the value can be set from 1 to 300 minutes.

5.6 The About Window

Clicking on the icon ? opens the about window:

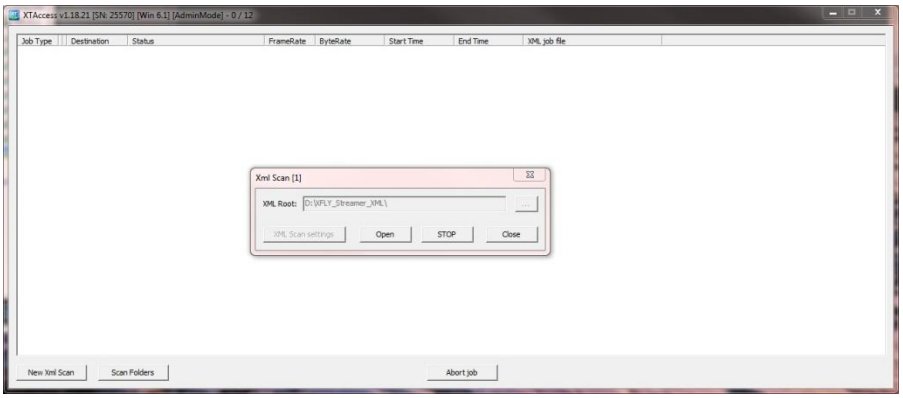
This window displays the following items:

- The XFly Streamer application version.
- A link to this User Manual in digital format.
- A list of EVS technical support mails and phones if you need further assistance with this product.

6. How to Record Streams

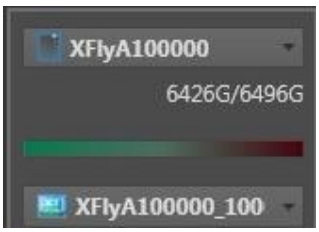
To start the recording, proceed as follow:

1. The local XTAccess and its related XML unit is already started and minimized in the task bar.

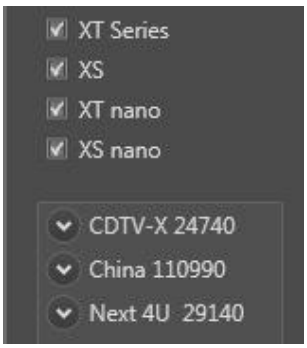


2. Click this shortcut to launch the XFLY. Streamer software. The screen will always appear as follows:

3. Select the XFLY hardware and the processing device i.e. XTAccess from the two drop- down list in the upper left corner. The local system and software if present always appear at the top of the list.

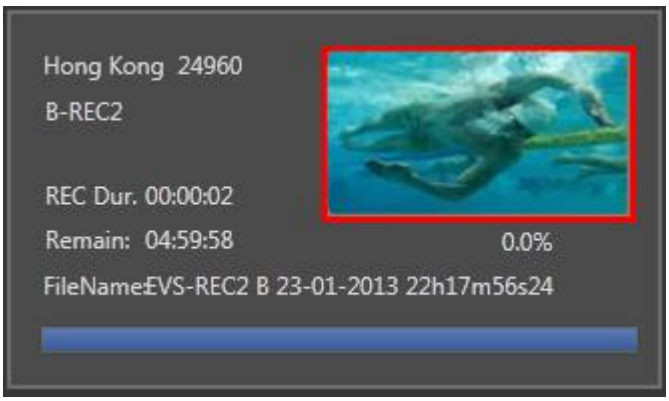


4. Then set a server type to display the servers list:



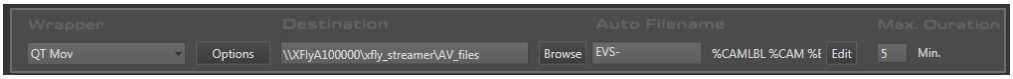
5. Into the server list, click the arrow to display the list of available channels:

The selected channel is now displayed in the channel area with thumbnails generation to preview the channel:



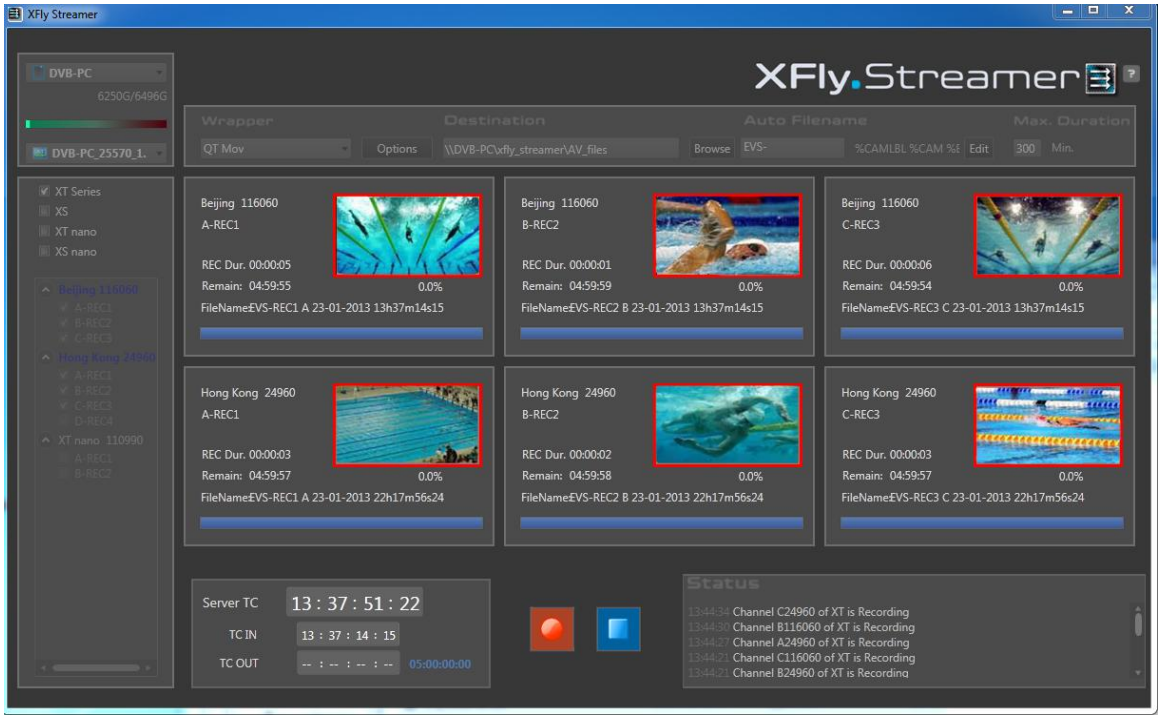
6. Repeat step 5 to select all channels desired.

7. Check and if necessary modify the wrapper selected, the path to save the file, the format string for automatic filenaming and/or the maximum duration.



8. Then click REC command to start the recording:

The REC command lights red and red frame is displayed around each channel. All selections and settings are disabled during the recording.



9. Click STOP command to stop the recording.

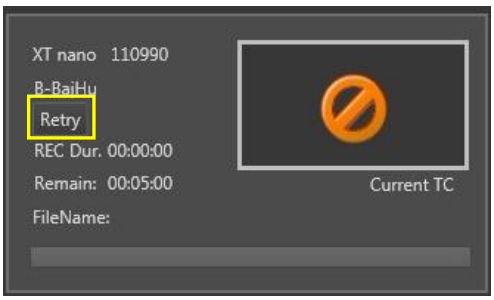
Note

As the backup files need to close properly, it can however take some time before all jobs are finalized.

7. How to Retry the Streaming Jobs One by One

New! When job(s) failed, a retry command is available in the channel area.

The user has the possibility to retry the job without stopping or re-starting the other jobs in progress.



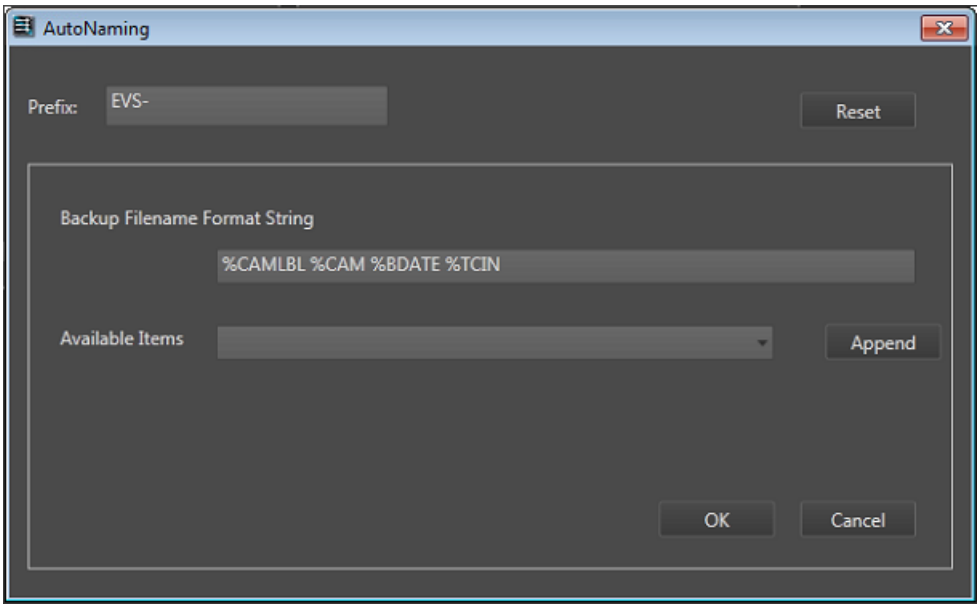
The RETRY button is only available for the job(s) failed in its channel area.

And the Retry command is only available for streaming jobs.

8. How to modify the Backup Filename Format String

To modify this default format string, proceed as follows:

1. Click on the EDIT button into the Auto Filename area, the autonaming window appears:



2. To add a generic text (i.e.: WC 2012_Match03...) in the Prefix string or into the Filename field, simple type the text in the field.

3. In the Filename field, delete/modify the default items

4. To add information, select into the Available Items from drop-down list:

5. Clicking the Append button to add the selected item at the end of the Filename string.

6. If necessary, modify the position of the available items as desired with the CUT (CTRL-C) and PASTE (CTRL-V) commands.

7. Repeat step 4 to 6 for any new information you want to add in the Filenames string.